

App. Ser. No. 09/621,825
Amendment dated Nov. 28, 2006
Reply to Office Action of Sep. 28, 2006

Docket No. AB-1634 US
Ref. No. LW6001 US/SJ

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the Application:

Listing of Claims:

1. (previously presented) A liquid crystal display (LCD), comprising:
a monitor unit, comprising:
a backlight assembly having a light source;
an LCD panel arranged on the backlight assembly;
a mold frame receiving the backlight assembly and the LCD panel and formed to be gradually thinner as further advancing from a first side adjoining the light source toward a second side opposite the first side; and,
a chassis coupled to the mold frame to fix the backlight assembly and the LCD panel therebetween and formed to be gradually thinner as further advancing from a first side adjoining the light source toward a second side opposite the first side;
an information processing module including a central processing unit generating control signals and a video signal processing unit generating video signals;
a printed circuit board (PCB) coupled between the information processing module and the LCD panel, receiving the video signals from the information processing module and generating and providing a gate driving signal and a data driving signal to the LCD panel;
and,
an input unit provided externally to the monitor unit and connected to the information processing module.

a liquid crystal display panel assembly having a liquid crystal display panel and a source printed circuit board formed with a wiring pattern for signal transmission;
a backlight assembly that supplies light to said liquid crystal display panel assembly;
a mold frame that accepts said backlight assembly and liquid crystal display panel assembly;
and,

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a chassis coupled to said mold frame to fix said backlight assembly and said liquid crystal display panel assembly therebetween,
wherein said source printed circuit board receives a liquid crystal display panel driving signal supplied from an outside of said liquid crystal display and transmits said liquid crystal display panel driving signal to said liquid crystal display panel.

3. (withdrawn) The liquid crystal display as claimed in claim 2, wherein said backlight assembly comprises:

a light source portion that generates said light; and,
a light-conducting plate formed to be thinner as being further distanced from said light source portion.

4. (withdrawn) The liquid crystal display as claimed in claim 3, wherein said chassis and said mold frame are formed to be gradually thinner as further advancing from a first side adjoining said light source portion toward a second side facing said first side, corresponding to the shape of said light-conducting plate.

5. (previously presented) An information processing apparatus, comprising:
a liquid crystal display (LCD) module, including:

a backlight assembly having a light source;
an LCD panel arranged on the backlight assembly;
a mold frame receiving the backlight assembly and the LCD panel and formed to be gradually thinner as further advancing from a first side adjoining the light source toward a second side opposite the first side; and,

a chassis coupled to the mold frame to fix the backlight assembly and the LCD panel

side adjoining the light source toward a second side opposite the first side;

an information processing module attached to the mold frame and comprising a central processing unit generating control signals and a video signal processing unit generating video signals;

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a printed circuit board (PCB) coupled between the information processing module and the LCD panel and receiving the video signals from the information processing module and generating and providing a gate driving signal and a data driving signal to the LCD panel; and,
an input unit provided externally to the LCD module and connected to the information processing module.

6. (withdrawn) The information processing apparatus as claimed in claim 5, further comprising a flexible printed circuit board for electrically connecting said liquid crystal display panel driving circuit and source printed circuit board.

7. (withdrawn) The information processing apparatus as claimed in claim 6, wherein said flexible printed circuit board comprises:

a first flexible printed circuit board extending from said liquid crystal display panel driving circuit; and,
a second flexible printed circuit board extending from said source printed circuit board, wherein said first and second flexible printed circuit boards are electrically coupled onto either one side of an internal space of said main body and between said backlight assembly and mold frame.

8. (withdrawn) The information processing apparatus as claimed in claim 6, wherein said flexible printed circuit board and source printed circuit board are electrically coupled by means of either one of an anisotropic conductive film and a solder.

9. (previously presented) The information processing apparatus of claim 5, wherein the in-

response to the control signals from the central processing unit.

10. (previously presented) The information processing apparatus of claim 9, wherein the information processing module is attached on a rear surface of the mold frame.

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11. (previously presented) The information processing apparatus of claim 9, further comprising a front case and a rear case coupled to the front case, wherein the backlight assembly, the LCD panel, the mold frame, the chassis and the information processing module are fixed between the front case and the rear case.

12. (previously presented) The information processing apparatus of claim 9, wherein the data storage comprises at least one selected from the group consisting of ROM, RAM, a hard disc drive and an optical disc.

13. (previously presented) The information processing apparatus of claim 9, wherein the information processing module further comprises:

- an interfacing unit connected to the input unit;
- a sound control unit that plays and records sound; and,
- a communicating unit that performs communication with an external device.

14. (withdrawn) The information processing apparatus as claimed in claim 5, wherein said information processing module further comprises signal converting means, which is electrically coupled to said liquid crystal display panel driving circuit, for converting an analog video signal supplied from an outside of said liquid crystal display into a digital video signal to supply the converted signal to said liquid crystal display panel driving circuit.

15. (withdrawn) The information processing apparatus as claimed in claim 14, wherein said liquid crystal display module further comprises a reinforcing bracket closely coupled to the rear plane of said mold frame.

16. (withdrawn) The information processing apparatus as claimed in claim 15, wherein said information processing module is bent to the rear plane of said mold frame together with said liquid crystal display panel driving circuit to be fixedly coupled to said reinforcing bracket.

17. (withdrawn) The information processing apparatus as claimed in claim 5, wherein said liquid crystal display module is coupled to said information processing module by means of hinges and latches, the portion of placing said light source portion in said liquid crystal display

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module is coupled to said information processing module by means of said hinges, and an end of the portion thinned as being further distanced from said light source portion is coupled to said information processing module by means of said latches.

18. (currently amended) A display device, comprising:

a liquid crystal display (LCD) module, including:

a backlight assembly having a light source and a rear surface;

an LCD panel arranged on the backlight assembly;

a mold frame receiving the backlight assembly and the LCD panel and extending over substantially the entire rear surface of the backlight assembly; and,

a chassis coupled to the mold frame to fix the backlight assembly and the LCD panel therebetween;

an information processing module attached to a rear surface of the mold frame and comprising a central processing unit generating control signals and a video signal processing unit generating video signals;

a printed circuit board (PCB) coupled between the information processing module and the LCD panel and receiving the video signals from the information processing module and generating and providing a gate driving signal and a data driving signal to the LCD panel; and,

an input unit provided externally to the LCD module and connected to the information processing module.

19. (previously presented) The display device of claim 18, further comprising a front case and a rear case coupled to the front case, wherein the backlight assembly, the LCD panel, the PCB, the mold frame, the chassis and the information processing module are fixed between the front case and the rear case.

20. (previously presented) The display device of claim 18, wherein the information processing module further comprises data storage that stores and supplies data in response to the control signals from the central processing unit.

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21. (previously presented) The display device of claim 20, wherein the data storage comprises at least one selected from the group consisting of ROM, RAM, a hard disc drive and an optical disc.

22. (previously presented) The display device of claim 20, wherein the information processing module further comprises:

- an interfacing unit connected to the input unit;
- a sound control unit that plays and records sound; and,
- a communicating unit that performs communication with an external device.

23. (previously presented) The LCD of claim 1, wherein the information processing module further comprises data storage that stores and supplies data in response to the control signal from the central processing unit.

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